

IN THE ABSTRACT

Please rewrite the abstract as follows:

A remote controller for exchanging information using infrared rays requests the direct transmission of a user interface (UI) to a device to be controlled, such as a printer or a facsimile machine, or the indirect transmission through another device that is connected to the device that is to be controlled. When the UI is returned upon receipt of the request, the menu of functions that the device that is to be controlled can execute using the UI is displayed on the screen of the remote controller, and a command to select a function that is selected from the menu is transmitted to the device that is to be controlled.